AUTHOR INDEX, VOLUME XLVIII

Abe, K.: See Watanabe, A. N. H.

Adler, G., Ballantine, D., and Baysal, B.: The mechanism of free radical polymerization in the solid state, 195

Allen, G., Gee, G., and Stretch, C.: Anionic polymerization of styrene by sodium naphthalene, 189

Ballantine, D.: see Adler, G.

Bamford, C. H., Jenkins, A. D., and Ward, J. C.: Polymerization in the solid and near-solid states, 37

Banderet, A.: see Loucheux, M.-H.

Baysal, B.: see Adler, G.

Bensasson, R., et Marx, R.: Irradiation de l'acrylonitrile à l'état solide, 53

Bernas, A., and Bodard, M.: Quelques observations sur la polymérisation radiochimique de l'acrylonitrile, 167

Bodard, M.: see Bernas, A.

Braun, D.: see Kern, W.

Butler, K., Thomas, P. R., and Tyler, G. J.: Stereospecific polymerization of some polar vinyl monomers, 357

Campi, E.: see Nasini, A. G.

Case, L. C.: Molecular distributions in polycondensations involving unlike reactants. VII. Treatment of reactants involving nonindependent groups, 27

Chachaty, C., Magat, M., and Ter Minassian, L.: Polymérisation du formaldehyde amorcée par les radiations ionisantes, 139

Champetier, G., and Sekiguchi, H.: Mécanisme réactionnel de la polymérisation anionique des lactames, 309

Chapiro, A.: Synthèse des copolymères greffés à partir des polymères ayant subi l'action des radiations ionisantes. III. Etude comparée du greffage sur le polyéthylène et sur le polypropylène, 109

Chaudhuri, D. K. R., and Hermans, J. J.: Grafting onto cellulosic macromolecules through chain transfer to mercaptoethyl side chains. I. Experimental procedure and results, 159

Cini, R.: see Piccardi, G.

Colclough, R. L., Gee, G., and Jagger, A. H.: The polymerization of propylene oxide by trimethyl aluminum, 273

Coleman, B. D.: see Fuoss, R. M.

Connolly, J. W.: see Radell, J.

Delzenne, G., Toppet, S., and Smets, G.: Photopolymerization of acrylamide. I. Formation of the initiating redox system, 347

Dole, M., Stolki, T. J., and Williams, T. F.: Influence of unsaturated groups on crosslinking and inhibition of crystallization in the gamma ray irradiation of linear polyethylenes, 61

Freudenberg, K.: Principles of lignin growth, 371

Friedlander, H. N., Smith, W. E., and Ross, R. J.: Copolymers from promoted preformed solid catalysts, 17

Fuoss, R. M., Watanabe, M., and Coleman, B. D.: Quaternization kinetics of poly-4-vinylpyridine, 5

Gee, G.: see Allen, G.

——: see Colclough, R. O.

Goodman, K., and Nesbitt, B. F.: The structures and reversible polymerization of cyclic oligomers from poly(ethylene terephthalate), 423

Grassie, N.: Novel types of chain reactions in polymer degradation, 79

Hart, R., and Timmerman, D.: Arylsulfonic polymers. II. Synthesis and polymerization of fluorosulfonylaryl monomers, 151

Henrici-Olivé, G. and Olivé, S.: Branching in polystyrene, 329

Hermans, J. J.: see Chaudhuri, D. K. R.

Hopf, P. P., and Sully, B. D.: Some polyvinyl chloride resin systems containing epoxidized oil, 367

Huggins, M. L.: Mechanism of stereospecific polymerization, 473

Jaacks, V.: see Kern, W.

Jagger, A. H.: see Colclough, R. O.

Jenkins, A. D.: see Bamford, C. H.

Kargin, V. A.: Introduction, the International Symposium on Macromolecular Chemistry, 1

Kern, W., and Jaacks, V.: Some kinetic effects in the polymerization of 1,3,5-trioxane, 399

——· Schulz, R. C., and Braun, D.: Macromolecules with groups of high reactivity, 91
Kishita, M.: see Kubo, M.
Kohler, A.: see Parrod, J.
Kubo, M., Kishita, M., and Kuroda, Y.: Polymer molecules involving coordination links in the crystals of cupric oxalate and related compounds, 467
Kuroda, Y.: see Kubo, M.
Lebel, P.: see Landler, Y.
Loucheux, M.-H., and Banderet, A.: Contribution purement chimique à la connaissance de la forme des macromolécules en solution, 405
Magat, M.: Influence des rayonnements ionisants sur les systèmes polymérisables, 379
——: see Chachaty, C.
Marvel, C. S.: Intramolecular-intermolecular polymerization of nonconjugated diolefins, 101
Marx, R.: see Bensasson, R.
Michaeli, I.: Ion binding and the formation of insoluble polymethacrylic salts, 291
Nasini, A. G., Saini, G., Trossarelli, L., and Campi, E.: Polyethylidene from diazoethane upon catalysts: Chromatographic analysis of evolved gases and mechanism of reaction, 435
Natta, G.: Stereospecific polymerizations, 219
Nesbitt, B. F.: see Goodman, I.
Olivé, S.: see Henrici-Olivé, G.
Oster, G.: see Oster, G. K.
Oster, G. K., and Oster, G.: Photochemical modifications of high polymers by visible light, 321
Parrod, J., and Kohler, A.: Recherches sur les combinaisons d'insertion de macromolécules, 457
Piccardi, G., and Cini, R.: Polymerization and the low-frequency electromagnetic field, 393
Radell, J., and Connolly, J. W.: Synthesis and polymerization of epiperchloratohydrin, 343
Rogovin, Z. A.: New methods of modifying the properties of cellulose, 443
Ross, R. J.: see Friedlander, H. N.
Saini, G.: see Nasini, A. G.
Scholes, G., Ward, J. F., and Weiss, J. J.: Some chemical effects of ionizing radiations on nucleic acids and related compounds, 301
Schulz, R. C.: see Kern, W.
Sebban-Danon, J.: Quelques aspects de la cinétique de formation des copolymères greffés, 121
Sekhar, B. C.: Degradation and crosslinking of polyisoprene in *Hevea brasiliensis* latex during processing and storage, 133
Sekiguchi, H.: see Champetier, G.
Sella, C.: Sur la structure des polyéthylènes greffés par la technique de préirradiation, 207
Smets, G.: see Delzenne, G.
Smith, W. E.: see Friedlander, H. N.
Sono, Y.: see Watanabe, A. N. H.
Stolki, T. J.: see Dole, M.
Stretch, C.: see Allen, G.
Sullt, B. D.: see Hopf, P. P.
Ter Minassian, L.: see Chachaty, C.
Thilo, E.: Grundlinien der Chemie hochmolekularer anorganischer Verbindungen, 69
Thomas, P. R.: see Butler, K.
Timmerman, D.: see Hart, R.
Toppet, S.: see Delzenne, G.
Trossarelli, L.: see Nasini, A. G.
Tyler, G. J.: see Butler, K.
Van der Hoff, B. M. E.: On the mechanism of emulsion polymerization styrene. III. Polymerization initiated by oil-soluble compounds, 175
Walling, C.: The effect of high pressure on the individual steps of free radical polymerization, 335
Ward, J. C.: see Bamford, C. H.
Ward, J. F.: see Scholes, G.
Watanabe, A. N. H., Abe, K., and Sono, Y.: Grignard reagent-catalyzed polymerization of methyl methacrylate, 241
Watanabe, M.: see Fuoss, R. M.
Weiss, J. J.: see Scholes, G.
Williams, T. F.: see Dole, M.
Yandler, Y., and Lebel, P.: Greffage sur polychlorure de vinyle par préozonisation, 477

SUBJECT INDEX, VOLUME XLVIII

Anionic polymerization, lactams, 309
Absorption, of polymer by crystal compound, 457
Acrylamide, photopolymerization, 347
Acrylonitrile, radiochemical polymerization, 167
  solid state, irradiation, 53
Arylsulfonic polymers, fluorosulfonylaryl monomers, 151
Branching, polystyrene, 329
Catalysts, preformed solid, for copolymers, 17
Catalysis, Grignard reagent, methyl methacrylate polymerization, 241
Cellulose, grafting onto, 159
  new methods of modifying, 443
Chain reactions, novel types in polymer degradation, 79
Chain structure, macromolecules in solution, 405
Chain transfer, grafting onto cellulosic macromolecules, 159
Coordination links in crystals, in polymer molecules, 467
Copolymers, grafted, from preirradiated polymers, 109
  kinetics of grafted, 121
  preformed solid catalysts, 17
Crosslinking, influence of unsaturated groups, irradiated polyethylenes, 61
  polyisoprene, in Hevea latex, 133
Crystals, absorption of addition polymer, 457
  irradiation of linear polyethylenes, 61
  polymer molecules involving coordination links, 467
Cyclic oligomers, structure and reversible polymerization, 423
Degradation, novel chain reactions, 79
  polyisoprene in Hevea latex, 133
Diazoethane, metal-catalyzed, polyethylidene from, 435
Diolefins, nonconjugated, intramolecular-intermolecular polymerization, 101
Electromagnetic field, low-frequency, effect on polymerization, 393
Emulsion polymerization, styrene, 175
Epiperchloratohydrin, synthesis and polymerization, 343
Epoxidized oil, polyvinyl chloride resin systems, 367
Fluorosulfonylaryl monomers, synthesis and polymerization, 151
Formaldehyde, polymerization initiated by ionizing radiation, 139
Free radical polymerization, effect of high pressure, 335
  solid state, 195
Gamma ray irradiation, linear polyethylenes, crystallization, 61
Grafting, on cellulosic macromolecules, 159
  kinetics of formation, 121
  preirradiated polymers, 109
  preozonization, on polyvinyl chloride, 477
Grignard reagent, methyl methacrylate polymerization, 241
Groups, high reactivity, in macromolecules, 91
  nonindependent, polycondensation reactants, 27
  unsaturated, influence in polyethylene irradiation, 61
Hevea brasiliensis latex, degradation and crosslinking of polyisoprene, 133
Initiating redox system, photopolymerization of acrylamide, 347
Inorganic compounds, high molecular chemistry of, 69
"Insertion," addition compound in crystallized compound, 457
Intra-intermolecular polymerization, alternating, 279
  diolefins, 101
Ion binding, formation of insoluble polymethacrylic salts, 291
Ionizing radiation, polymerizable systems, 379
  effects of nucleic acids, 301
Irradiation, acrylonitrile in solid state, 53
  initiation of formaldehyde polymerization, 139
  linear polyethylenes, 61
Irradiation grafting, 109
  structure of polyethylene, 207
Kinetics, effects in polymerization of 1,3,5-trioxane, 399
  graft copolymers, 121

quaternization, poly-4-vinylpyridine, 5
Lactams, reaction mechanism of anionic polymerization, 309
Light, visible, photochemical modifications of high polymers, 321
Lignin, principles of growth, 371
Links, coordination, in crystals, 467
Macromolecules, cellulosic, grafting, 159
chain structure in solution, 405
groups of high reactivity, 91
inorganic compounds, 69
Mechanism, reaction, anionic polymerization of lactams, 309
Mercaptoethylation, grafting onto cellulosic macromolecules, 159
Methyl methacrylate, Grignard reagent-catalyzed polymerization, 241
Molecular distributions, polycondensations, 27
Monomers, fluorosulfonylaryl, synthesis and polymerization, 151
polar vinyl, stereospecific polymerization, 357
Nucleic acids, effects of ionizing radiation, 301
Oligomers, cyclic, structure and reversible polymerization, 423
Photochemical modification, of high polymers by visible light, 321
Photopolymerization, acrylamide, 347
Polycondensations, molecular distributions in, 27
Polydispersity, of polymer in crystal compound, 457
Polyethylene, grafting, compared with polypropylene, 109
linear, irradiation, 61
preirradiation grafting, structure, 207
terephthalate, cyclic oligomers from, 423
Polyethylidene, from diazoethane, metal-catalyzed, 435
Polyisoprene, in Hevea latex, degradation and crosslinking, 133
Polymethacrylic salts, formation and ion binding, 291
Polyproplene, grafting, compared with polyethylene, 109
Polystyrene, branching, 329
Polyvinyl chloride, preozonization grafting, 477
resin systems containing epoxidized oil, 367
Poly-4-vinylpyridine, quaternization kinetics, 5
Preozonization, grafting on polyvinyl chloride, 477
Pressure, effect of, on free radical polymerization, 335
Propylene oxide, polymerization by trimethyl aluminum, 273
Quaternization, kinetics, poly-4-vinylpyridine, 5
Radiation, ioninizing, effects on, nucleic acids, 301
polymerizable systems, 379
Radiochemical polymerization, acrylonitrile, 167
Reactants, with nonindependent groups, molecular distributions, 27
unlike, polycondensations, 27
Redox, initiating, photopolymerization of acrylamide, 347
Resin systems, polyvinyl chloride, containing epoxidized oil, 367
Side chains, mercaptoethyl, grafting onto cellulosic macromolecules, 159
Sodium naphthalene, in anionic polymerization of styrene, 189
Solid state, acrylonitrile, irradiated, 53
free radical polymerization, 195
polymerization, 37
Solution, and chain structure of macromolecules, 405
Stereospecific polymerization, 219
mechanism, 473
polar vinyl monomers, 357
Styrene, anionic polymerization by sodium naphthalene, 189
emulsion polymerization, 175
Trimethyl aluminum, for polymerization of propylene oxide, 273
1,3,5-Trioxane, kinetic effects in polymerization, 399
Vinyl monomers, polar, stereospecific polymerization, 357